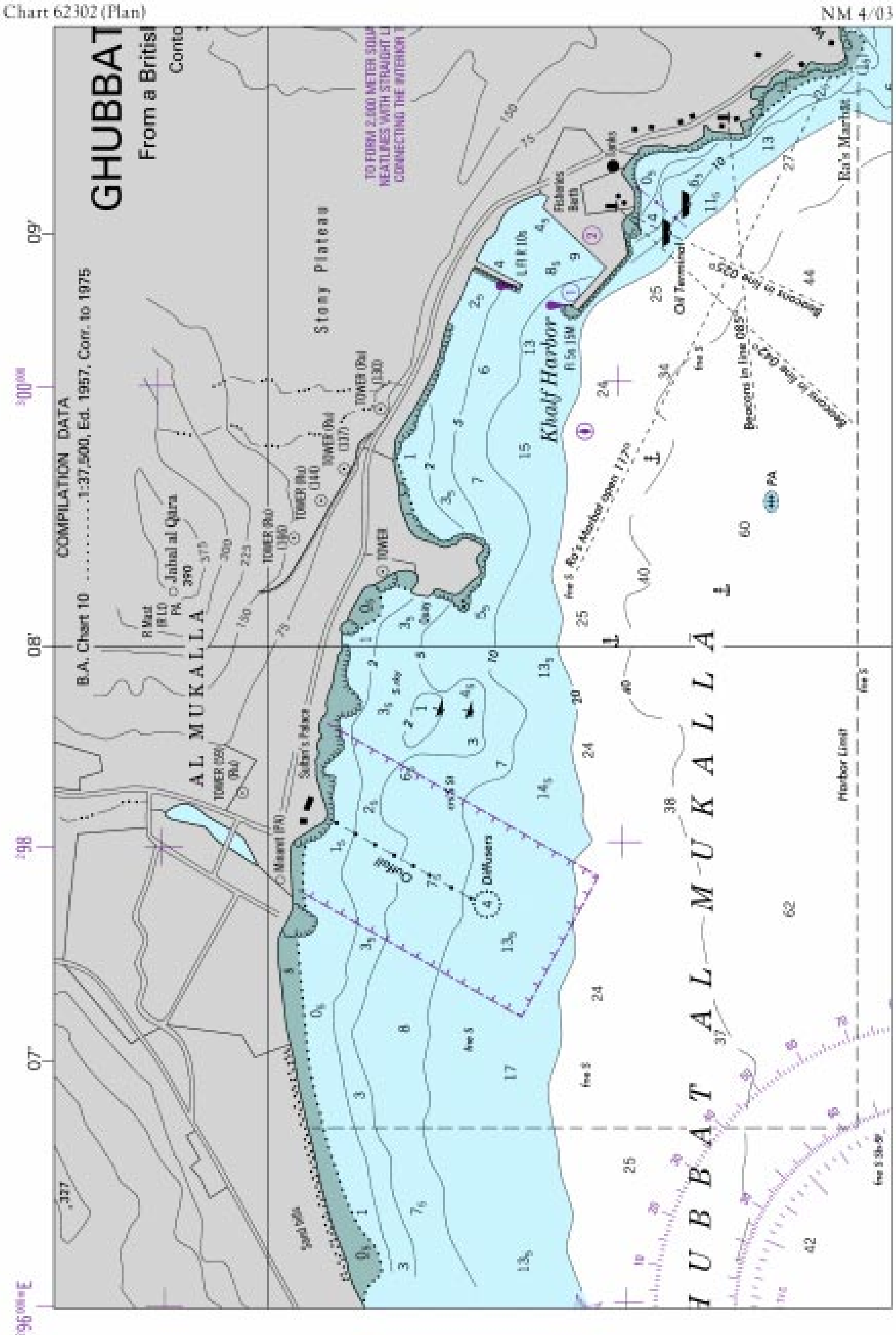
Chart 62302 (Plan)
NM 4/03
GHUBBAT
From a Britis
COMPILATION DATA
B.A. Chart 10 ....1:37,500, Ed. 1957, Corr. to 1975
Jabal al Qara
Stony Plateau
AL MUKALLA
Sultan's Palace
Outfall
Diffusers
Khalf Harbor
Fisheries Basin
Oil Terminal
Ra's Marbat
Harbor Limit
GHUBBAT AL MUKALLĀ

Chart 11322 (Side B) NM 4/03

FREEPORT HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL FROM DEEP WATER TO SEAWARD END OF JETTY	46.0	48.0	43.0	9-02	400	3.7	47
JETTY CHANNEL	45.0	46.0	40.0	10-02	400	1.2	45
LOWER TURNING BASIN	45.0	47.0	43.0	10-02	750	0.9	45
THENCE TO BRAZOSPORT TURNING BASIN	47.0	48.0	47.0	10-02	400-600	0.4	45
BRAZOSPORT TURNING BASIN	45.0	48.0	46.0	10-02	500-1000	0.2	45
CHANNEL TO UPPER TURNING BASIN	46.0	49.0	48.0	10-02	280-470	0.9	45
BRAZOS HARBOR APPROACH CHANNEL	37.0	38.0	39.0	6-02	200-650	0.5	36
BRAZOS HARBOR TURNING BASIN	36.0	37.0	38.0	6-02	750	0.1	36
UPPER TURNING BASIN	46.0	48.0	47.0	10-02	600-1190	0.2	45
CHANNEL TO STAUFFER TURNING BASIN	17.0	19.0	17.5	11-88	200	1.0	25
STAUFFER TURNING BASIN	18.0	18.0	16.0	11-88	500	0.1	25

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11325 NM 4/03

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HOUSTON SHIP CHANNEL: EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	34.0	36.0	39.0	34.0	10-02	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	38.0	38.0	35.0	29.0	8-02	400-300	4.70	40
GREENS BAYOU CHANNEL (TO FIRST BEND)	39.0	42.0	44.0	42.0	4-02	500-175	0.34	36
THENCE TO HUNTING BAYOU (UPPER BEND)	40.0	43.0	43.0	40.0	8-02	300	1.91	40
TURNING POINT AT HUNTING BAYOU	43.0	42.0	42.0	41.0	6-02	600	0.17	40
THENCE TO SOUTHERN PACIFIC SLIP	39.0	41.0	41.0	38.0	8-02	300	3.04	40
TURNING POINT AT SIMS BAYOU	43.0	44.0	42.0	42.0	6-02	700	0.26	40
THENCE TO HOUSTON TURNING BASIN WHARF 15	41.0	42.0	41.0	38.0	8-02	300	2.69	36
TURNING POINT AT BRADY ISLAND	22.0	33.0	40.0	39.0	5-02	422	0.17	36
HOUSTON TURNING BASIN	36.0	35.0	37.0	35.0	7-02	250-1000	0.70	36
UPPER TURNING BASIN	21.0	22.0	15.0	19.0	7-02	150	0.23	36

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.

B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11328 NM 4/03

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END OF MORGAN POINT	29.0	34.0	40.0	34.0	6-01; 7-02	400-530	23.4	40
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	36.0	38.0	38.0	33.0	10-02	400-525	4.2	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11329 NM 4/03

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	36.0	38.0	38.0	33.0	10-02	400-525	4.20	40
EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	34.0	36.0	39.0	34.0	10-02	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	38.0	38.0	35.0	29.0	8-02	400-300	4.70	40

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.

B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11342 NM 4/03

SABINE PASS - SABINE - NECHES CANAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE PASS:								
OUTER BAR CHANNEL	38	42	42	42	8-02	800	3.0	42
JETTY CHANNEL	36	41	40	33	9-02	800-500	3.5	40
PASS CHANNEL	34	40	40	36	4-02	500-1150	4.9	40
ANCHORAGE BASIN	33	19	13	6	4-02	1500	0.5	40
PORT ARTHUR SHIP CANAL	34	39	37	31	11-01	500	4.8	40
JUNCTION PORT ARTHUR-SABINE NECHES CANALS	37	40	41	39	8-02	400-1200	1.1	40
ENTRANCE TO PORT ARTHUR TURNING BASINS	40	40	40	40	5-02	282-735	0.2	40
EAST TURNING BASIN	40	40	40	40	5-02	370-547	0.3	40
WEST TURNING BASIN	40	40	40	40	5-02	350-735	0.3	40
CHANNEL CONNECTING WEST BASIN AND TAYLOR BAYOU TURNING BASIN	40	40	40	36	6-02	200-350	0.5	40
TAYLOR BAYOU TURNING BASIN	24	40	40	37	6-02	90-1233	0.6	40
SABINE-NECHES CANAL:								
PORT ARTHUR TO NECHES RIVER	33	39	41	31	10-02	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	25	23	22	8-02	200	3.9	30

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11343 NM 4/03

SABINE AND NECHES RIVERS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE-NECHES CANAL :								
PORT ARTHUR TO NECHES RIVER	33	39	41	31	10-02	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	25	23	22	8-02	200	3.9	30
NECHES RIVER:								
MOUTH TO SMITH BLUFF	24	29	33	31	5-02	400	8.3	40
TURNING BASIN AT DEER BAYOU	37	36	34	34	5-02	700	0.2	40
TURNING BASIN AT SMITHS BLUFF	37	37	35	33	5-02	1400-400	0.2	40
SMITH BLUFF TO BEAUMONT	29	39	38	31	5-02	400	7.5	40
TURNING BASIN (30°02'12"N, 94°01'58"W)	31	39	40	37	5-02	400-1306	0.2	40
CHANNEL EXTENSION	33	35	32	28	5-02	350	0.2	36
MANEUVERING AREA (30°04'44"N, 94°05'05"W)	29	39	39	33	5-02	400-1000	0.6	40
BEAUMONT TURNING BASIN	37	37	38	37	5-02	400-535	0.2	34
TURNING BASIN EXTENSION	32	35	32	27	5-02	300	0.2	34
THENCE TO TRINITY INDUSTRIES	17	23	20	15	5-02	200	0.6	30
SABINE RIVER:								
MOUTH TO ORANGE MUNICIPAL SLIP	26	29	30	26	9-02	200	6.6	30
ORANGE TURNING BASIN	26	26	29	28	9-02	200 - 1400	0.6	30
ORANGE MUNICIPAL SLIP	24	30	26	20	9-02	150-200	0.5	30
ORANGE MUNICIPAL SLIP TO OLD HIGHWAY BRIDGE SITE	27	29	32	29	9-02	200	2.2	30
CHANNEL AROUND ORANGE HARBOR ISLAND	13	16	20	18	9-02	150-200	1.6	25

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11344 NM 4/03

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	30.0	38.0	38.0	28.0	10-02	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	31.0	40.0	47.0	48.0	6-01;8-02	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	20.0	39.0	40.0	37.0	8-02	400	6.0	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11347 (Side A) NM 4/03

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	30.0	38.0	38.0	28.0	10-02	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	31.0	40.0	47.0	48.0	6-01;8-02	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	20.0	39.0	40.0	37.0	8-02	400	6.0	40
THENCE TO A POINT (29°58'00.0"N, 93°20'10.0"W)	32.0	37.0	40.0	35.0	8-02	400	6.0	40
THENCE TO A POINT (A) (30°04'00.0"N, 93°19'38.0"W)	33.0	37.0	39.0	34.0	8-02	400	6.0	40
THENCE TO A POINT (B) (30°09'00.0"N, 93°19'58.0"W)	32.0	36.0	35.0	31.0	8-02	400	5.0	40
THENCE TO 210 BRIDGE	34.0	38.0	36.0	34.0	8-02	400	4.4	40
THENCE TO END OF 400 CHANNEL (30°13'09.0"N, 93°15'08.0"W)	35.0	38.0	38.0	33.0	8-02	400	2.0	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11347 (Side B) NM 4/03

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	30.0	38.0	38.0	28.0	10-02	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	31.0	40.0	47.0	48.0	6-01;8-02	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	20.0	39.0	40.0	37.0	8-02	400	6.0	40
THENCE TO A POINT (29°58'00.0"N, 93°20'10.0"W)	32.0	37.0	40.0	35.0	8-02	400	6.0	40
THENCE TO A POINT (A) (30°04'00.0"N, 93°19'38.0"W)	33.0	37.0	39.0	34.0	8-02	400	6.0	40
THENCE TO A POINT (B) (30°09'00.0"N, 93°19'58.0"W)	32.0	36.0	35.0	31.0	8-02	400	5.0	40
THENCE TO 210 BRIDGE	34.0	38.0	36.0	34.0	8-02	400	4.4	40
THENCE TO END OF 400 CHANNEL (30°13'09.0"N, 93°15'08.0"W)	35.0	38.0	38.0	33.0	8-02	400	2.0	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11353 NM 4/03

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			WIDTH (FEET)	DATE OF SURVEY
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER		
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	30.0	35.0	25.0	600	10-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	33.0	36.0	30.0	500	10-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11363 NM 4/03

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	30.0	35.0	25.0	600	10-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	33.0	36.0	30.0	500	10-02
THENCE TO INTERSECTION WITH G. I. W. W.	24.0	31.0	21.0	500	3,4,8,9,10-02
THENCE TO INNER HARBOR NAVIGATION CANAL	25.0	28.0	28.0	500	4,10-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11364 NM 4/03

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	30.0	35.0	25.0	600	10-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	33.0	36.0	30.0	500	10-02
THENCE TO INTERSECTION WITH G. I. W. W.	24.0	31.0	21.0	500	3,4,8,9,10-02
THENCE TO INNER HARBOR NAVIGATION CANAL	25.0	28.0	28.0	500	4,10-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11369 NM 4/03

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	30.0	35.0	25.0	600	10-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	33.0	36.0	30.0	500	10-02
THENCE TO INTERSECTION WITH G. I. W. W.	24.0	31.0	21.0	500	3,4,8,9,10-02
THENCE TO INNER HARBOR NAVIGATION CANAL	25.0	28.0	28.0	500	4,10-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11470 NM 4/03

PORT EVERGLADES CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002 AND SURVEYS TO SEP 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				DATE OF SURVEY	PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER		WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER BAR CUT (FROM SEA BUOY 2 TO EAST END OF SOUTH JETTY)	46.7	46.4	46.0	A30.0	9-02	500-450	1.0	45
BAR CUT (EAST END SOUTH JETTY TO TURNING BASIN, LT 9)	39.9	44.5	43.9	41.4	9-02	450	0.5	42

A. SHOALING TO 19.7 FEET AT 26°05'39.42"N, 80°06'16.79"W.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11505 NM 4/03

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				DATE OF SURVEY	PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER		WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	41.5	42.0	43.0	42.0	10,11-02	600	3.3	44
BLOODY POINT RANGE	42.0	43.0	42.5	42.0	10,11-02	600	3.0	44
JONES ISLAND RANGE	44.0	43.0	42.5	43.0	10,11-02	600	1.2	44
TYBEE KNOLL CUT RANGE	42.0	43.0	43.0	41.0	10,11-02	500	2.5	42

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.

NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.

NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11512 NM 4/03

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				DATE OF SURVEY	PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER		WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	41.5	42.0	43.0	42.0	10,11-02	600	3.3	44
BLOODY POINT RANGE	42.0	43.0	42.5	42.0	10,11-02	600	3.0	44
JONES ISLAND RANGE	44.0	43.0	42.5	43.0	10,11-02	600	1.2	44
TYBEE KNOLL CUT RANGE	42.0	43.0	43.0	41.0	10,11-02	500	2.5	42
NEW CHANNEL RANGE (A)	37.0	40.5	42.0	37.0	11-02	500	1.6	42
L. I. CROSSING RANGE	40.0	41.0	43.0	38.0	11-02	500	2.6	42
LOWER FLATS RANGE	42.0	44.0	44.0	41.0	11-02	500	1.3	42
UPPER FLATS RANGE	46.0	46.5	45.5	41.0	11-02	500	1.2	42
THE BIGHT CHANNEL	45.0	46.0	48.0	46.0	11-02	500	1.5	42
FT. JACKSON RANGE	45.5	47.5	47.0	42.0	11-02	500	0.7	42
OGLETHORPE RANGE	40.0	44.5	45.0	44.5	11-02	500	1.2	42
WRECKS CHANNEL (B)	41.5	46.0	47.0	46.0	11-02	500	1.5	42
CITY FRONT CHANNEL	43.0	44.0	44.0	41.0	11-02	500	1.5	42
MARSH ISLAND CHANNEL (C)	44.0	45.0	45.0	42.0	11-02	500	1.7	42
KINGS ISLAND CHANNEL (D)	36.0	39.0	39.0	37.0	11-02	500	2.1	42
WHITEHALL CHANNEL (E)	36.0	39.0	39.0	39.0	11-02	400	0.6	42-36
PORT WENTWORTH CHANNEL (F)	30.0	35.0	32.0	32.0	12-94; 11-02	200	1.2	30

A. OYSTER BED I.TURNING BASIN-CONTROLLING DEPTH 43.5 FT, 37.0 FT 100 FT FROM BACKSIDE.

B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 42.0 FT, 40.0 FT 100 FT FROM BACKSIDE.

C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 28.0 FT 100 FT FROM BACKSIDE.

D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 32.0 FT, 28.0 FT 100 FT FROM BACKSIDE.

E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 37.5 FT 100 FT FROM BACKSIDE.

F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 32.0 FT, 25.0 FT 100 FT FROM BACKSIDE.

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.

NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.

NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11514 (Side A) NM 4/03

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OGLETHORPE RANGE	40.0	44.5	45.0	44.5	11-02	500	1.2	42
WRECKS CHANNEL (A)	41.5	46.0	47.0	46.0	11-02	500	1.5	42
CITY FRONT CHANNEL	43.0	44.0	44.0	41.0	11-02	500	1.5	42
MARSH ISLAND CHANNEL (B)	44.0	45.0	45.0	42.0	11-02	500	1.7	42
KINGS ISLAND CHANNEL (C)	36.0	39.0	39.0	37.0	11-02	500	2.1	42
WHITEHALL CHANNEL (D)	36.0	39.0	39.0	39.0	11-02	400	0.6	42-36
PORT WENTWORTH CHANNEL (E)	30.0	35.0	32.0	32.0	12-94; 11-02	200	1.2	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 42.0, 40.0 FT 100 FT FROM BACKSIDE.
B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 38.0 FT, 28.0 FT 100 FT FROM BACKSIDE.
C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 32.0 FT, 28.0 FT 100 FT FROM BACKSIDE.
D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 37.5 FT 100 FT FROM BACKSIDE.
E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 32.0 FT, 25.0 FT 100 FT FROM BACKSIDE.
NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11537 NM 4/03

CAPE FEAR RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BALDHEAD SHOAL	36.2	38.3	38.4	32.0	8,10-01; 6-02	500	5.0	40
SMITH ISLAND	44.6	45.4	45.6	42.7	9-02	500	1.0	40
BALDHEAD CASWELL CHANNEL	43.2	44.9	44.1	43.9	9-02	500	0.4	40
SOUTHPORT CHANNEL	43.5	44.3	45.1	41.1	9-02	500	1.0	40
BATTERY ISLAND CHANNEL	44.7	44.2	43.6	29.3	9-02	500	0.5	40
LOWER SWASH	41.5	42.2	41.5	41.3	5-02	400	1.6	38
SNOWS MARSH	41.3	42.0	41.6	39.5	5-02	400	3.1	38
HORSESHOE SHOAL	40.4	42.7	42.2	40.8	5-02	400	1.2	38
REAVES POINT	35.8	37.8	37.2	35.5	3-02	400	1.2	38
LOWER MIDNIGHT	35.5	38.4	38.6	34.0	3-02	400	1.6	38
UPPER MIDNIGHT	36.7	37.6	38.3	36.2	3-02	400	2.7	38
LOWER LILLIPUT	37.1	36.8	36.9	35.3	3-02	400	1.9	38
UPPER LILLIPUT	35.7	37.1	37.0	35.8	3-02	400	1.9	38
KEG ISLAND	37.5	39.0	37.4	34.7	3-02	400	1.4	38
BIG ISLAND LOWER	39.7	42.4	43.6	43.1	3-02	400	0.8	38
BIG ISLAND UPPER	39.0	43.9	42.6	38.6	8-02	400	0.5	38
LOWER BRUNSWICK	36.8	39.3	39.1	35.8	8-02	400	1.6	38
UPPER BRUNSWICK	34.1	39.7	39.7	36.8	4-02	400	1.0	38
FOURTH EAST JETTY	36.7	38.6	39.0	36.5	4-02	400	1.2	38
BETWEEN CHANNEL	32.2	39.7	39.1	36.2	4-02	550	0.8	38
ANCHORAGE BASIN & APP CHANNEL	29.8	35.7	35.9	32.2	4-02;11-02	450-1090	1.3	38
HWY 74-76 TO BATTLESHIP	27.1	32.7	35.5	24.3	4-02	400	0.6	32
BATTLESHIP TO HWY 117 INCLUDING TURNING BASIN	10.8	29.6	31.1	24.7	4-02	190-850	-	32
HWY 117 TO HILTON BR	26.7	30.4	31.0	30.7	4-02	200-400	0.5	32
THENCE TO END OF PROJECT AT 34°16'36"N, 77°57'01"W	23.1	23.6A	23.5B	21.9C	6-99	200	1.2	25
TURNING BASIN	24.6	21.0	22.2	16.1	6-99	500	0.1	25

A. EXCEPT FOR SHOALING TO 21.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
B. EXCEPT FOR SHOALING TO 16.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
C. EXCEPT FOR SHOALING TO 10.2 FEET FOR THE LAST 150 FEET OF THE PROJECT.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12221 NM 4/03

THIMBLE SHOAL AND CHESAPEAKE BAY ENTRANCE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
THIMBLE SHOAL CHANNEL (A)								
NORTH ELEMENT (B)	47.6	46.5	45.6	44.1	6,7,9-00	350	13.0	55
SOUTH ELEMENT (C)	49.7	50.0	49.7	50.3	6,7,9-00	650	13.0	55
NORTH AUXILIARY CHANNEL (D)						450		32
SOUTH AUXILIARY CHANNEL (D)						450		32
CAPE HENRY CHANNEL	47.9	48.8	49.0	48.5	2,3,6-00	1000	1.4	50
YORK SPIT CHANNEL	38.5	49.5	50.1	45.9	11,12-99;2,3-00	1000(E)	18.4	50
YORK RIVER ENTRANCE CHANNEL	37.2	37.8	38.2	37.6	5,6,7-02	750	13.8	37

A. CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET.
B. PORTION OF PROJECT MAINTAINED TO 45 FEET.
C. PORTION OF PROJECT MAINTAINED TO 50 FEET.
D. PROJECT MAINTENANCE DISCONTINUED.
E. CHANNEL WIDTH MAINTAINED TO 800 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION.

Chart 12238 NM 4/03

YORK RIVER ENTRANCE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
YORK RIVER ENTRANCE	37.2	37.8	38.2	37.6	5,6,7-02	750	13.8	37

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14842 (Page 26) NM 4/03

SANDUSKY HARBOR CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
MOSELEY CHANNEL	23.2	24.0	25.3	A8.2	7-02	400	2.15	26
UPPER STRAIGHT CHANNEL	21.6	23.3	25.2	21.0	7-02	400	1.04	25
UPPER BAY CHANNEL	19.5	23.1	22.7	18.5	7-02	300	1.64	25
LOWER BAY CHANNEL	20.5	22.1	23.3	26.6	7-02	350	.24	24
TURNING BASIN	19.1	20.3	22.7	21.8	7-02	300-1725	.50	24
DOCK CHANNEL	18.6	17.7	19.3	18.2	7-02	300	1.10	22
LOWER STRAIGHT CHANNEL	16.2	17.1	18.0	17.5	7-02	400	.77	21

A. EXCEPT FOR SHOALING TO 4.4 FEET IN THE VICINITY OF BUOY 10.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14844 NM 4/03

SANDUSKY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
MOSELEY CHANNEL	23.2	24.0	25.3	A8.2	7-02	400	2.15	26
UPPER STRAIGHT CHANNEL	21.6	23.3	25.2	21.0	7-02	400	1.04	25
UPPER BAY CHANNEL	19.5	23.1	22.7	18.5	7-02	300	1.64	25
LOWER BAY CHANNEL	20.5	22.1	23.3	26.6	7-02	350	.24	24
TURNING BASIN	19.1	20.3	22.7	21.8	7-02	300-1725	.50	24
DOCK CHANNEL	18.6	17.7	19.3	18.2	7-02	300	1.10	22
LOWER STRAIGHT CHANNEL	16.2	17.1	18.0	17.5	7-02	400	.77	21

A. EXCEPT FOR SHOALING TO 4.4 FEET IN THE VICINITY OF BUOY 10.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14845 NM 4/03

SANDUSKY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
MOSELEY CHANNEL	23.2	24.0	25.3	A8.2	7-02	400	2.15	26
UPPER STRAIGHT CHANNEL	21.6	23.3	25.2	21.0	7-02	400	1.04	25
UPPER BAY CHANNEL	19.5	23.1	22.7	18.5	7-02	300	1.64	25
LOWER BAY CHANNEL	20.5	22.1	23.3	26.6	7-02	350	.24	24
TURNING BASIN	19.1	20.3	22.7	21.8	7-02	300-1725	.50	24
DOCK CHANNEL	18.6	17.7	19.3	18.2	7-02	300	1.10	22
LOWER STRAIGHT CHANNEL	16.2	17.1	18.0	17.5	7-02	400	.77	21

A. EXCEPT FOR SHOALING TO 4.4 FEET IN THE VICINITY OF BUOY 10.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18521 NM 4/03

COLUMBIA RIVER CHANNEL DEPTHS
ENTRANCE TO MILLER SANDS RANGE

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUGUST 2002

* SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
ENTRANCE RANGE	55	56	51	43	3-02	2640	3.3	48
SAND ISLAND RANGE (CLATSOP SPIT)	50	53	50	44	3-02	2640	2.2	48
LOWER DESDEMONA SHOAL	47	45	40	31	3,6-02	600	3.4	40
UPPER DESDEMONA SHOAL	44	46	46	45	6-02	600	3.7	40
TANSY POINT TURN AND RANGE	41	40	40	39	5-02	600	4.7	40
ASTORIA RANGE	42	42	41	43	6-02	600	2.7	40
TONGUE POINT CHANNEL	38	42	42	41	6-02	600	2.2	40
HARRINGTON POINT RANGE	39	39	40	42	6-02	600	2.6	40
MILLER SANDS RANGE	36	42	42	41	8-02	600	2.2	40

* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18521 NM 4/03

BAKER BAY WEST CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2000

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			DATE OF SURVEY	PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER		WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE TO 46°16'17.91"N 124°01'50.00"W C	9	14	17	10-00	150	1.3	10
46°16'17.91"N 124°01'50.00"W TO FORT CANBY	13	13	16	10-00	150	1.3	10
THENCE TO ILWACO	14	16	15	10-00	150	0.9	10
MOORING BASIN A B	3	3	3	1980	-	-	-

A. SHOALING TO 2 FEET ON RIGHT HALF, BETWEEN THE BREAKWATERS.
B. BASIN LOCALLY MAINTAINED. NO RECENT SURVEYS AVAILABLE.
C. SHOAL TO BARE CENTERED AT 46°16'10.38"N 124°01'49.34"W EXTENDING EASTWARD TO 46°16'10.38"N 124°01'48.25"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18523 NM 4/03

COLUMBIA RIVER CHANNEL DEPTHS
MILLER SANDS RANGE TO GULL ISLAND TURN AND CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY - AUGUST 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)				DATE OF SURVEY	PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER		WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MILLER SANDS RANGE	36	42	42	41	8-02	600	2.2	40
PILLAR ROCK LOWER RANGE	39	42	40	41	8-02	600	3.0	40
PILLAR ROCK UPPER RANGE	38	43	43	42	8-02	600	1.9	40
WELCH ISLAND REACH	43	41	42	37	8-02	600	3.2	40
SKAMOKAWA CHANNEL	38	41	41	39	8-02	600	3.3	40
STEAMBOAT REACH	46	48	43	43	8-02	600	1.4	40
PUGET ISLAND RANGE AND TURN	41	43	42	40	8-02	600	3.5	40
WAUNA RANGE	39	41	40	42	8-02	600	2.2	40
DRISCOLL RANGE	40	40	41	41	8-02	600	1.7	40
WESTPORT TURN AND RANGE	38	40	42	42	8-02	600	2.0	40
WESTPORT CHANNEL	38	41	38	36	8-02	600	2.4	40
EUREKA LOWER CHANNEL	44	43	44	42	7-02	600	2.1	40
EUREKA UPPER CHANNEL	41	44	44	41	7-02	600	0.8	40
OAK POINT CHANNEL	44	44	45	43	8-02	600	2.4	40
GULL I TURN AND CHANNEL	47	44	44	36	8-02	600	2.2	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18524 NM 4/03

COLUMBIA RIVER CHANNEL DEPTHS
GULL ISLAND TURN AND CHANNEL TO SAINT HELENS TURN
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUGUST 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
GULL I TURN AND CHANNEL	47	44	44	36	8-02	600	2.2	40
STELLA RANGE	38	40	39	38	8-02	600	2.8	40
FISHER I CHANNEL	39	41	44	41	8-02	600	0.9	40
WALKER I CHANNEL	42	41	42	36	8-02	600	1.5	40
BARLOW PT. CHANNEL	44	45	43	40	8-02	600	1.3	40
SLAUGHTERS CHANNEL	40	41	40	38	8-02	600	2.5	40
SLAUGHTERS TURN AND CHANNEL OPPOSITE THE TURNING BASIN	39	41	40	38	8-02	600	1.7	40
COTTONWOOD ISLAND LOWER RANGE	40	39	38	38	7,8-02	600	1.7	40
COTTONWOOD ISLAND TURN	42	41	40	37	7-02	600	2.7	40
COTTONWOOD ISLAND UPPER RANGE AND TURN	40	40	41	40	7-02	600	1.6	40
KALAMA LOWER RANGE	42	43	41	38	7-02	600	1.8	40
KALAMA UPPER RANGE	38	38	38	35	7-02	600	2.2	40
BYBEE LEDGE CHANNEL	39	43	43	41	7-02	600	2.1	40
MARTIN ISLAND CHANNEL	39	39	39	38	7,8-02	600	2.1	40
MARTIN ISLAND RANGE	41	42	41	42	8-02	600	1.4	40
COLUMBIA CITY CHANNEL	40	40	41	40	7,8-02	600	1.2	40
ST. HELENS RANGE	39	41	38	37	7-02	600	2.0	40
ST. HELENS TURN	41	41	40	36	7-02	600	1.7	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18525 NM 4/03

COLUMBIA RIVER CHANNEL DEPTHS
SAINT HELENS TURN TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JULY 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ST. HELENS TURN	41	41	40	36	7-02	600	1.7	40
WARRIOR ROCK RANGE	37	40	41	40	7-02	600	1.3	40
DUCK CLUB TURN	39	39	41	43	7-02	600	1.4	40
HENRICI RANGE	37	39	40	39	7-02	600	2.6	40
FALES CHANNEL	42	40	40	37	7-02	600	1.1	40
KNAPP POINT CHANNEL	40	39	39	37	7-02	600	1.8	40
WILLOW LOWER RANGE	40	40	38	40	7-02	600	2.1	40
WILLOW UPPER RANGE	44	45	41	50	7-02	600	1.1	40
MORGAN TURN	43	44	47	50	7-02	600	1.0	40
MORGAN CHANNEL	45	47	43	43	7-02	600	1.5	40
VANCOUVER LOWER CHANNEL	49	48	51	54	7-02	500	1.0	40
VANCOUVER RANGE	41	40	40	40	7-02	500	1.3	40
VANCOUVER UPPER CHANNEL	42	42	42	40	7-02	500	0.9	40
VANCOUVER LOWER TURNING BASIN	37	39	40	41	7-02	800	1.0	40
VANCOUVER UPPER TURNING BASIN	30	26	29	25	7-02	800	0.9	35
TOMAHAWK BAR	18	18	18	17	10-01	300	3.7	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18526 NM 4/03

COLUMBIA RIVER CHANNEL DEPTHS
MORGAN CHANNEL TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JULY 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MORGAN CHANNEL	45	47	43	43	7-02	600	1.5	40
VANCOUVER LOWER CHANNEL	49	48	51	54	7-02	500	1.0	40
VANCOUVER RANGE	41	40	40	40	7-02	500	1.3	40
VANCOUVER UPPER CHANNEL	42	42	42	40	7-02	500	0.9	40
VANCOUVER LOWER TURNING BASIN	37	39	40	41	7-02	800	1.0	40
VANCOUVER UPPER TURNING BASIN	30	26	29	25	7-02	800	0.9	35
TOMAHAWK BAR	18	18	18	17	10-01	300	3.7	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18581 NM 4/03

YAQUINA BAY AND RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL ENTRANCE 44°36'23"N, 124°05'24"W TO FIRST TURN	26	32	34	10-02	400-300	1.3	40-30
THENCE TO TURNING BASIN	28	28	25	4,7-02	300-400	1.3	30
TURNING BASIN	18	23	24	4-02	300-1200	0.3	30
THENCE TO YAQUINA	13	12	12	6-00	200	1.6	18
THENCE TO END OF PROJECT	2A	07	5B	7-98;7-00;11-00	150	9.7	10

A. SHOAL TO BARE AT 44°36'57.89'N, 123°56'34.87"W.
B. SHOAL TO BARE FROM 44°36'49.6'N, 123°56'55.4"W TO 44°36'57.3'"N, 123°56'42.7"W .
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18584 NM 4/03

UMPQUA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002 AND SURVEYS TO OCT 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL TO LT. 21	18	18	18	3, 4, 6-02; 8, 9, 10-02	200	7.0	26-22
LT. 21 TO REEDSPORT	17	19	17	5-02; 9, 10-02	200	2.7	22
REEDSPORT TURNING BASIN	25	24	24	5-02; 10-02	600	0.2	22
LT. 21 TO GARDINER	12	13	11	10-01	200	1.15	22
GARDINER TURNING BASIN	5	2	2	10-01	500	0.2	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18587 NM 4/03

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE COPRS OF ENGINEERS - SURVEYS TO OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE RANGE	38	38	39	10-02	---	1.9	47-37
ENTRANCE RANGE AND TURN	41	45	32	9-02	300-1050	0.5	37
INSIDE RANGE	39	39	38	9-02	300	0.6	37
COOS BAY RANGE	35	37	37	7-02, 9-02	300	1.6	37
EMPIRE RANGE	36	37	38	7-02	300	1.3	37
LOWER JARVIS RANGE	37	37	34	9-02	300	0.8	37
JARVIS TURN	36	39	36	9-02	300	0.5	37
UPPER JARVIS RANGE	35	36	36	9-02	300-700	1.9	37
NORTH BEND LOWER RANGE	39	38	38	9-02	400	0.4	37
NORTH BEND RANGE	34	36	36	7-02	400	0.9	37
NORTH BEND UPPER RANGE	36	37	36	7-02	400	0.6	37
LOWER TURNING BASIN	32	37	34	7-02	400-900	0.3	37
FERNDALE LOWER RANGE	38	39	38	7-02	400	0.4	37
FERNDALE TURN	34	38	37	7-02	400	0.2	37
FERNDALE UPPER RANGE	31	36	36	7-02	400	0.7	37
MARSHFIELD RANGE	36	36	33	9-02	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	37	37	34	9-02	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18649 NM 4/03

OAKLAND OUTER AND INNER HARBORS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	39.5	42.1	40.5	40.1	4-02;8-02	1000-930	0.57	42
OUTER HARBOR ENTRANCE CHANNEL	38.4	39.8	42.3	39.0	8-02	900-600	0.91	42
OUTER HARBOR	37.4	40.2	39.6	39.9	8-02	1575-600	1.40	42
INNER HARBOR								
ENTRANCE CHANNEL	40.1	41.2	41.2	40.4	8-02	2100-480	1.10	42
INNER HARBOR REACH	40.8	41.1	40.4	39.8	8-02	1325-480	2.27	42
GROVE ST PIER TO BROOKLYN BASIN	A22.3	33.4	34.5	B24.2	2-01;8-02	600	1.30	42
BROOKLYN BASIN SOUTH CHANNEL	C14.4	22.8	23.7	D9.7	2-01	600-500	0.90	42
PARK ST BRIDGE REACH	13.9	20.3	23.5	11.3	7-86;3-88	500-275	0.42	42

A. A DEPTH OF 32.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
B. A DEPTH OF 33.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
C. A DEPTH OF 19.5 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
D. A DEPTH OF 19.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18649 NM 4/03

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SOUTHAMPTON SHOAL CHANNEL	43.5	43.7	43.9	43.3	4-02	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	35.4	36.5	36.5	36.4	8-02	600-550	1.0	35
POINT POTRERO REACH	34.2	35.4	34.9	31.9	8-02	500-600	1.4	35
POINT POTRERO TURN	35.8	34.2	32.7	34.9	8-02	600-1250	0.6	35
HARBOR CHANNEL	36.1	36.4	36.8	36.1	4,8-02	850-200	0.5	35
SANTA FE CHANNEL	28.2	30.0	30.0	29.4	2-99,4-02	200	0.5	35-30
TURNING BASIN	28.6	30.1	29.1	24.1	2-99	200-500	0.16	30

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18650 NM 4/03

OAKLAND OUTER AND INNER HARBORS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	39.5	42.1	40.5	40.1	4-02;8-02	1000-930	0.57	42
OUTER HARBOR ENTRANCE CHANNEL	38.4	39.8	42.3	39.0	8-02	900-600	0.91	42
OUTER HARBOR	37.4	40.2	39.6	39.9	8-02	1575-600	1.40	42
INNER HARBOR								
ENTRANCE CHANNEL	40.1	41.2	41.2	40.4	8-02	2100-480	1.10	42
INNER HARBOR REACH	40.8	41.1	40.4	39.8	8-02	1325-480	2.27	42
GROVE ST PIER TO								
BROOKLYN BASIN	A22.3	33.4	34.5	B24.2	2-01;8-02	600	1.30	42
BROOKLYN BASIN SOUTH CHANNEL	C14.4	22.8	23.7	D9.7	2-01	600-500	0.90	42
PARK ST BRIDGE REACH	13.9	20.3	23.5	11.3	7-86;3-88	500-275	0.42	42

A. A DEPTH OF 32.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
B. A DEPTH OF 33.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
C. A DEPTH OF 19.5 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
D. A DEPTH OF 19.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18652 (Page E) NM 4/03

SUISUN BAY AND SAN JOAQUIN RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	44.1	45.7	46.9	3-02	300	0.8	35
BULLS HEAD CHANNEL	34.9	33.5	33.0	7-02	300-350	1.2	35
EAST BULLS HEAD CHANNEL	33.2	34.3	34.2	7-02	350	1.1	35
PT. EDITH CROSSING RANGE	36.3	35.7	30.0	7-02	350	1.1	35
PRESTON PT. REACH	36.0	33.7	25.3	3,7-02	350	0.9	35
ROE ISLAND CHANNEL	31.9	32.3	32.6	3-02	350	1.1	35
PORT CHICAGO REACH	37.0	36.9	36.9	3-02	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37.2	36.1	34.7	3-02	350	1.29	35
EAST REACH	36.0	36.9	35.8	3-02	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31.7	34.6	35.5	3-02	400	1.3	35
EAST REACH	32.2	32.9	31.5	3,4-02	400	1.7	35
SAN JOAQUIN RIVER							
ANTIOCH REACH	32.1	32.9	32.2	4-02	400	3.3	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18653 NM 4/03

RICHMOND HARBOR AND SOUTHAMPTON SHOAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SOUTHAMPTON SHOAL CHANNEL	43.5	43.7	43.9	43.3	4-02	600	1.1	45
RICHMOND HARBOR								
ENTRANCE CHANNEL	35.4	36.5	36.5	36.4	8-02	600-550	1.0	35
POINT POTRERO REACH	34.2	35.4	34.9	31.9	8-02	500-600	1.4	35
POINT POTRERO TURN	35.8	34.2	32.7	34.9	8-02	600-1250	0.6	35
HARBOR CHANNEL	36.1	36.4	36.8	36.1	4,8-02	850-200	0.5	35
SANTA FE CHANNEL	28.2	30.0	30.0	29.4	2-99,4-02	200	0.5	35-30
TURNING BASIN	28.6	30.1	29.1	24.1	2-99	200-500	0.16	30

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18656 NM 4/03

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	44.1	45.7	46.9	3-02	300	0.8	35
BULLS HEAD CHANNEL	34.9	33.5	33.0	7-02	300-350	1.2	35
EAST BULLS HEAD CHANNEL	33.2	34.3	34.2	7-02	350	1.1	35
PT. EDITH CROSSING RANGE	36.3	35.7	30.0	7-02	350	1.1	35
PRESTON PT. REACH	36.0	33.7	25.3	3,7-02	350	0.9	35
ROE ISLAND CHANNEL	31.9	32.3	32.6	3-02	350	1.1	35
PORT CHICAGO REACH	37.0	36.9	36.9	3-02	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37.2	36.1	34.7	3-02	350	1.29	35
EAST REACH	36.0	36.9	35.8	3-02	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31.7	34.6	35.5	3-02	400	1.3	35
EAST REACH	32.2	32.9	31.5	3,4-02	400	1.7	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18657 NM 4/03

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SUISUN PT. REACH	44.1	45.7	46.9	3-02	300	0.8	35
BULLS HEAD CHANNEL	34.9	33.5	33.0	7-02	300-350	1.2	35
EAST BULLS HEAD CHANNEL	33.2	34.3	34.2	7-02	350	1.1	35
PT. EDITH CROSSING RANGE	36.3	35.7	30.0	7-02	350	1.1	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18658 NM 4/03

SUISUN BAY

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
EAST BULLS HEAD CHANNEL	33.2	34.3	34.2	7-02	350	1.1	35
PT. EDITH CROSSING RANGE	36.3	35.7	30.0	7-02	350	1.1	35
PRESTON PT. REACH	36.0	33.7	25.3	3,7-02	350	0.9	35
ROE ISLAND CHANNEL	31.9	32.3	32.6	3-02	350	1.1	35
PORT CHICAGO REACH	37.0	36.9	36.9	3-02	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	37.2	36.1	34.7	3-02	350	1.29	35
EAST REACH	36.0	36.9	35.8	3-02	350	1.09	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18661 (Side A) NM 4/03

SAN JOAQUIN RIVER-STOCKTON DEEP WATER CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ANTIOCH TO LIGHT 17	32.1	32.9	32.2	4-02	400	3.3	35
LIGHT 17 TO LIGHT 43	A	A	A				
LIGHT 43 TO LIGHT 51	31.5	32.2	32.8	4-02	600	1.5	35
LIGHT 51 TO LIGHT 2	A	A	A				
LIGHT 2 TO LIGHT 6	34.8	35.9	36.1	4-02	225	1.5	35
THENCE TO LIGHT 16	34.2	34.1	31.3	4-02	225-250	2.8	35
THENCE TO LIGHT 24	31.3	33.8	30.9	4-02	225-250	2.1	35
THENCE TO LIGHT 34	33.3	35.6	34.4	4-02	250	1.5	35
THENCE TO LIGHT 43	34.2	34.6	32.0	4-02	200-250	3.4	35
THENCE TO LIGHT 48	34.4	34.5	31.6	4-02	225-250	1.1	35
THENCE TO TURNING BASIN	33.6	34.7	33.6	4-02	225-250	0.8	35
TURNING BASIN	32.7	32.6	29.8	4-02	225-975	0.3	35

A. SEE CHARTED SOUNDINGS.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18661 (Side B) NM 4/03

SAN JOAQUIN RIVER-STOCKTON DEEP WATER CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ANTIOCH TO LIGHT 17	32.1	32.9	32.2	4-02	400	3.3	35
LIGHT 17 TO LIGHT 43	A	A	A				
LIGHT 43 TO LIGHT 51	31.5	32.2	32.8	4-02	600	1.5	35
LIGHT 51 TO LIGHT 2	A	A	A				
LIGHT 2 TO LIGHT 6	34.8	35.9	36.1	4-02	225	1.5	35
THENCE TO LIGHT 16	34.2	34.1	31.3	4-02	225-250	2.8	35
THENCE TO LIGHT 24	31.3	33.8	30.9	4-02	225-250	2.1	35
THENCE TO LIGHT 34	33.3	35.6	34.4	4-02	250	1.5	35
THENCE TO LIGHT 43	34.2	34.6	32.0	4-02	200-250	3.4	35
THENCE TO LIGHT 48	34.4	34.5	31.6	4-02	225-250	1.1	35
THENCE TO TURNING BASIN	33.6	34.7	33.6	4-02	225-250	0.8	35
TURNING BASIN	32.7	32.6	29.8	4-02	225-975	0.3	35

A. SEE CHARTED SOUNDINGS.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18663 NM 4/03

SAN JOAQUIN RIVER-STOCKTON DEEP WATER CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			DATE OF SURVEY	PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER		WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
LIGHT 2 (CHART 18661)							
TO LIGHT 6	34.8	35.9	35.9	4-02	225	1.5	35
THENCE TO LIGHT 16	34.2	34.1	31.3	4-02	225-250	2.8	35
THENCE TO LIGHT 24	31.3	33.8	30.9	4-02	225-250	2.1	35
THENCE TO LIGHT 34	33.3	35.6	34.4	4-02	250	1.5	35
THENCE TO LIGHT 43	34.2	34.6	32.0	4-02	200-250	3.4	35
THENCE TO LIGHT 48	34.4	34.5	31.6	4-02	225-250	1.1	35
THENCE TO TURNING BASIN	33.6	34.7	33.6	4-02	225-250	0.8	35
TURNING BASIN	32.7	32.6	29.8	4-02	225-975	0.3	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION